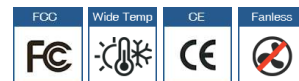


# HES18MC-2G Series

## 16+2G-Port Rackmount Gigabit Managed Ethernet Switches

### Features

- RingOn (recovery time < 15ms), RSTP for Network Redundancy
- Automatic E-mail Notification for system events
- IGMP multicast group and traffic management
- QoS (IEEE 802.1p/1Q) and TOS/DiffServ to increase determinism



### Introduction

The HES18MC-2G series industrial managed rackmount switches are designed to seamlessly integrate your control networks and field networks. The switches can operate in extreme operating temperatures ranging from -40 to +75°C, and are equipped with up to two AC power inputs for conventional usage as well as for advanced Ethernet switching functionality to ensure the reliability of your communication network. The HES18MC-2G switches are designed to meet the rigorous demands of mission critical applications, including traffic control systems, networks along railway tracks, maritime applications, mining and oil/gas industry applications.

### Specifications

Technology	
Standard	IEEE802.3, 802.3u, 802.3x, 802.3ab, 802.1Q, 802.1p
Processing Type	Store and forward
Broadcast Storm	Automatic Broadcast Storm Control
Management	by Web Browser
RingOn	Recovery Time within 15ms
Flow Control	Full Duplex Flow Control, Half Duplex Back Pressure Control
Protocols	IGMP Snooping, GMRP, SNMPv1/v2c/ v3, DHCP Client, HTTP, HTTPS, Telnet, NTP Client
Switch Properties	
MAC Table Size	8K
Priority Queues	4
Max. Number VLANs	64
VLAN ID Range	VID 1 to 4094
IGMP Groups	256

Interface			
RJ45 Port	10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed		
Fiber Ports	100BaseFX ports (SC/ST connector)		
Fiber Module	1000Base-LX (2 SFP slots)		
LED Indicators	Power, Port Status, 10/100/1000M		
Console port	DB9 male		
Output Warning	Relay, Standard 2 Pin		
Power Requirements			
Input Voltage	120~370VDC @ 25W MAX 85~265VAC @ 25VA MAX		
Input Connection	Barrier type terminal blocks		
Physical Characteristics			
Case	Slim Metal Case, IP30 Design		
Dimensions	443×44×260mm		
Installation	DIN Rail or Panel Mounting		
Optical Fiber			
Mode	Multi-mode	Single Mode	Single Mode
Transmission Distance	2km	20km	20km
Centre Wavelength	1310nm	1310nm	1310nm
Cable Size	62.5/125um	9/125um	9/125um
TX Power(dBm)	-20~-10dBm	-15~-8dBm	-8~-2dBm
RX Power(dBm)	< -32dBm	< -32dBm	< -32dBm
Transmission Rate	100Mbps	100Mbps	1000Mbps
Environment Limits			
Operating Temp	Standard Models: -10 to 60°C Wide Temp. Models: -40 to 75°C		
Storage Temp	-40 to 85°C		
Ambient Relative Humidity	5 to 95%(Non-condensing)		
Standards and Certifications			
EMI	FCC Part15, CISPR(EN55022) Class A		
EMS	EN61000-4-2(ESD) Level 3, EN61000-4-3(RS) Level 3, EN61000-4-4(EFT) Level 3, EN61000-4-5(Surge) Level 3, EN61000-4-6(CS) Level 3, EN61000-6-2		
Shock	IEC 60068-2-27		
Freefall	IEC 60068-2-32		
Vibration	IEC 60068-2-6		
Warranty			
Warranty Period	3 years		

## Ordering Information

HES18MC-2G-VH	Rackmount Managed, 16 x 100Mbps Copper Port, 2 x Gigabit combo Interface, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES18MC-2G-VHW	Rackmount Managed, 16 x 100Mbps Copper Port, 2 x Gigabit combo Interface, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES18MC-2G-2SC-VH	Rackmount Managed, 14 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES18MC-2G-2SC-VHW	Rackmount Managed, 14 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES18MC-2G-2SSC-VH	Rackmount Managed, 14 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES18MC-2G-2SSC-VHW	Rackmount Managed, 14 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES18MC-2G-4SC-VH	Rackmount Managed, 12 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES18MC-2G-4SC-VHW	Rackmount Managed, 12 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC
HES18MC-2G-4SSC-VH	Rackmount Managed, 12 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Temperature -10°C to +60°C, Power Input 120~370VDC or 85~264VAC
HES18MC-2G-4SSC-VHW	Rackmount Managed, 12 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Wide Temperature -40°C to +75°C, Power Input 120~370VDC or 85~264VAC

Note: All of the Above Products SC Connector can be replaced by ST Connector